

Title (en)

EYEWEAR WITH VARIABLE TRANSMISSION LENS

Title (de)

BRILLE MIT VARIABLER TRANSMISSIONSLINSE

Title (fr)

LUNETTES À LENTILLE DE TRANSMISSION VARIABLE

Publication

EP 3698207 A1 20200826 (EN)

Application

EP 18801041 A 20181019

Priority

- US 201715789684 A 20171020
- IB 2018058172 W 20181019

Abstract (en)

[origin: US2019121164A1] A lens for sunglasses includes a convex front surface, functionally directed toward an item to be viewed, and a concave rear surface, functionally directed toward the eye of a person who is wearing the eyeglasses. The lens further includes a photochromatic layer, proximate to the front surface, and a screening layer defining a UV filter, proximate to the rear surface and arranged between the rear surface and the photochromatic layer. The photochromatic layer is in the range of wavelengths comprised between 380 nm and 780 nm and has a transmittance comprised between 10% and 60%, in an activated state thereof, and a wavelength comprised between 80% and 95%, in a deactivated state thereof. The screening layer has a transmittance lower than 0.5% in the range of wavelengths comprised between 280 nm and 400 nm.

IPC 8 full level

G02C 7/10 (2006.01)

CPC (source: EP US)

G02C 7/102 (2013.01 - EP US); **G02C 7/104** (2013.01 - EP US); **G02C 7/108** (2013.01 - EP US); **G02C 2202/16** (2013.01 - US); **G02C 2202/18** (2013.01 - EP US)

Citation (search report)

See references of WO 2019077585A1

Designated contracting state (EPC)

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Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

US 2019121164 A1 20190425; CN 111417892 A 20200714; CN 111417892 B 20220913; EP 3698207 A1 20200826; WO 2019077585 A1 20190425

DOCDB simple family (application)

US 201715789684 A 20171020; CN 201880068167 A 20181019; EP 18801041 A 20181019; IB 2018058172 W 20181019